

Abstract of the Disclosure

Provided are methods for the preparation of immunoglobulins, including fully-human immunoglobulins, and immunoglobulins and compositions comprising immunoglobulins prepared by these methods. Also provided are libraries of immunoglobulins and immunoglobulin expressing cells as well as methods and vector constructs for preparation of these libraries. Immunoglobulins provided herein are useful *inter alia* as immunological and diagnostic agents and as therapeutic molecules in the treatment of diseases such as autoimmune diseases, heart disease, infections and cancers.